



SEQUENCE LISTING

<110> DANA-FARBER CANCER INSTITUTE, INC.
MARASCO, Wayne
MHASHILKAR, Abner

<120> INTRABODY-MEDIATED CONTROL OF IMMUNE
REACTIONS

<130> 47577 CA

<140> PCT/US98/19563

<141> 1998-09-18

<150> 60/059,339

<151> 1997-09-19

<160> 55

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96
Val Leu Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg
20 25 30
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144
Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45
act agt cac tgg atg cag tgg gtg aga cag agg cct gga cag ggt ctg
192
Thr Ser His Trp Met Gln Trp Val Arg Gln Arg Pro Gly Gln Gly Leu
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gaa tgg att ggg act att tat cct gga gat ggt gat act agg tac act
240
Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Arg Tyr Thr
65 70 75 80

cag aat ttc aag ggc aag gcc aca ttg act gca gat aag tcc tcc acc
288

Gln Asn Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr
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aca gcc tac tta cac ctc agc agc ttg tca tct gaa gac tct gcg gtc
336

Thr Ala Tyr Leu His Leu Ser Ser Leu Ser Ser Glu Asp Ser Ala Val
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tat tat tgt gca aga gat gag att act acg gtt gta ccc cgg ggg ttt
384

Tyr Tyr Cys Ala Arg Asp Glu Ile Thr Thr Val Val Pro Arg Gly Phe
115 120 125

gct tac tgg ggc caa ggg acc tcg gtc acc gtc tcc tca ggt ggc ggt
432

Ala Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Gly Gly Gly
130 135 140

ggc tcg ggc ggt ggt ggc tcg ggt ggc ggc gga tct gag ctc gtg ctc
480

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Leu Val Leu
145 150 155 160

acc caa acc cca acc tcc ctg gct ncc tct ctg gga gac aga gtc acc
528

Thr Gln Thr Pro Thr Ser Leu Ala Xaa Ser Leu Gly Asp Arg Val Thr
165 170 175

atc agt tgc agg gca agt cag gac att agc agt tat tta aac tgg tat
576

Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Ser Tyr Leu Asn Trp Tyr
180 185 190

cag cag aaa cca gat gga act att aaa ctc ctg atc tac tac aca tca
624

Gln Gln Lys Pro Asp Gly Thr Ile Lys Leu Leu Ile Tyr Tyr Thr Ser
195 200 205

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672

Arg Leu Tyr Ser Gly Val Pro Pro Arg Phe Ser Gly Ser Gly Ala Gly
210 215 220

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720

Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln Glu Asp Phe Ala
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768

Thr Tyr Phe Cys Gln Gln Gly Asn Val Ile Pro Tyr Thr Phe Gly Gly
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837

Glu Lys Asp Glu Leu * *
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Pro	Gly	Ala	Ser	Val	Lys	Leu	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe
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Thr	Ser	His	Trp	Met	Gln	Trp	Val	Arg	Gln	Arg	Pro	Gly	Gln	Gly	Leu
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Glu	Trp	Ile	Gly	Thr	Ile	Tyr	Pro	Gly	Asp	Gly	Asp	Thr	Arg	Tyr	Thr
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Gln	Asn	Phe	Lys	Gly	Lys	Ala	Thr	Leu	Thr	Ala	Asp	Lys	Ser	Ser	Thr
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Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Glu	Leu	Val	Leu		
145					150					155					160		
Thr	Gln	Thr	Pro	Thr	Ser	Leu	Ala	Xaa	Ser	Leu	Gly	Asp	Arg	Val	Thr		
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Ile	Ser	Cys	Arg	Ala	Ser	Gln	Asp	Ile	Ser	Ser	Tyr	Leu	Asn	Trp	Tyr		
		180					185					190					
Gln	Gln	Lys	Pro	Asp	Gly	Thr	Ile	Lys	Leu	Leu	Ile	Tyr	Tyr	Thr	Ser		
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Arg	Leu	Tyr	Ser	Gly	Val	Pro	Pro	Arg	Phe	Ser	Gly	Ser	Gly	Ala	Gly		
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Thr	Asp	Tyr	Ser	Leu	Thr	Ile	Ser	Asn	Leu	Glu	Gln	Glu	Asp	Phe	Ala		
225				230					235						240		
Thr	Tyr	Phe	Cys	Gln	Gln	Gly	Asn	Val	Ile	Pro	Tyr	Thr	Phe	Gly	Gly		
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Gly	Thr	Lys	Leu	Glu	Met	Lys	Arg	Ala	Asp	Ala	Ala	Pro	Thr	Val	Ser		
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 gtc ctg tcc cag gtg caa ctg cag cag tct ggg gct gag ctg aca aga
 96
 Val Leu Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Thr Arg
 20 25 30

cct ggg gct tca gtg aag ttg tcc tgc aag gct tct ggc tac acc ttt
144

Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45

act agt cac tgg atg cag tgg gtg aga cag agg cct gga cag ggt ctg
192

Thr Ser His Trp Met Gln Trp Val Arg Gln Arg Pro Gly Gln Gly Leu
50 55 60

gaa tgg att ggg act att tat cct gga gat ggt gat act agg tac act
240

Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Arg Tyr Thr
65 70 75 80

cag aat ttc aag ggc aag gcc aca ttg act gca gat aag tcc tcc acc
288

Gln Asn Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr
85 90 95

aca gcc tac tta cac ctc agc agc ttg tca tct gaa gac tct gcg gtc
336

Thr Ala Tyr Leu His Leu Ser Ser Leu Ser Ser Glu Asp Ser Ala Val
100 105 110

tat tat tgt gca aga gat gag att act acg gtt gta ccc cgg ggg ttt
384

Tyr Tyr Cys Ala Arg Asp Glu Ile Thr Thr Val Val Pro Arg Gly Phe
115 120 125

gct tac tgg ggc caa ggg acc ttg gtc acc gtc tcc tca ggt ggc ggt
432

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
130 135 140

ggc tcg ggc ggt ggt ggg tcg ggt ggc ggc gga tct gag ctc gtg ctc
480

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Leu Val Leu
145 150 155 160

acc cag tct cca tcc agt ctg tct gca tcc ctt gga gac aca att acc
528

Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly Asp Thr Ile Thr
 165 170 175

atc act tgc cat gcc agt cag aac att aat gtt tgg tta agt tgg tac
 576

Ile Thr Cys His Ala Ser Gln Asn Ile Asn Val Trp Leu Ser Trp Tyr
 180 185 190

cag cag aaa cca gga aat att cct caa cta ttg atc tat aag gct tcc
 624

Gln Gln Lys Pro Gly Asn Ile Pro Gln Leu Leu Ile Tyr Lys Ala Ser
 195 200 205

aac ttg cac aca ggc gtc cca tca agg ttt agt ggc cgt gga tct gga
 672

Asn Leu His Thr Gly Val Pro Ser Arg Phe Ser Gly Arg Gly Ser Gly
 210 215 220

aca ggt ttc aca tta acc atc agc agc ctg cag cct gaa gac att ggc
 720

Thr Gly Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Gly
 225 230 235 240

act tac tac tgt caa cag ggt caa agt tat cct ctg acg ttc ggt gga
 768

Thr Tyr Tyr Cys Gln Gln Gly Gln Ser Tyr Pro Leu Thr Phe Gly Gly
 245 250 255

ggc acc aag ctg gaa atc aaa cgg gct gat gct gca cca act gta agc
 816

Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser
 260 265 270

gaa aag gac gag ctg taa taa
 837

Glu Lys Asp Glu Leu * *
 275

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Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45
Thr Ser His Trp Met Gln Trp Val Arg Gln Arg Pro Gly Gln Gly Leu
50 55 60
Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Arg Tyr Thr
65 70 75 80
Gln Asn Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr
85 90 95
Thr Ala Tyr Leu His Leu Ser Ser Leu Ser Ser Glu Asp Ser Ala Val
100 105
Tyr Tyr Cys Ala Arg Asp Glu Ile Thr Thr Val Val Pro Arg Gly Phe
115 120 125
Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
130 135 140
Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Leu Val Leu
145 150 155 160
Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly Asp Thr Ile Thr
165 170 175
Ile Thr Cys His Ala Ser Gln Asn Ile Asn Val Trp Leu Ser Trp Tyr
180 185 190
Gln Gln Lys Pro Gly Asn Ile Pro Gln Leu Leu Ile Tyr Lys Ala Ser
195 200 205
Asn Leu His Thr Gly Val Pro Ser Arg Phe Ser Gly Arg Gly Ser Gly
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Thr Gly Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Gly
225 230 235 240
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Glu Lys Asp Glu Leu

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